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SMSYZ¹WTGALITPCGPEEEKLPIX¹PLSNSLX²RFHNKVYSTTSRSASLRAKKVTFDRVQV LDAHYDSVLQDVKRAASKVSARLLTVEEACALTPPHSAKSRYGFGAKEVRSLSRRAVNHIR SVWEDLLEDQHTPIDTTIMAKNEVFCIDPTKGGKKPARLIVYPDLGVRVCEKMALYDIAQK LPKAIMGPSYGFQYSPAERVDFLLKAWGSKKDPMGFSYDTRCFDSTVTERDIRTEESIYQA CSLPQEARTVIHSLTERLYVGGPMTNSKGQSCGYRRCRASGVFTTSMGNTMTCYIKALAAC KAAGIVDPVMLVCGDDLVVISESQGNEEDERNLRAFTEAMTRYSAPPGDLPRPEYDLELIT SCSSNVSVALDSRGRRRYFLTRDPTTPX³TRAAWETVRHSPVNSWLGNIIQYAPTIWVRMVI MTHFFSILLAQDTLNQNLNFEMYGAVYSVNPLDLPAIIERLHGLEAFSLHTYSPHELSRVA ATLRKLGAPPLRAWKSRARAVRASLIAQGARAAICGRYLFNWAVKTKLKLTPLPEASRLDL SGWFTVGAGGGDIYHSVSHARPRLLLLCLLLLSVGVGIFLLPDR

## 2/7

TCY1ATGTCY2TACY3CY4TGGACY5GGY6GCCY7TY8ATY9ACACCATGTGGGCCCGAAGAGG AGAAGTTACCGATCAX1CCCTCTGAGTAATTCGCTCATX2CGGTTCCATAATAAGGTGTACT CCACAACCTCGAGGAGTGCCTCTCTGAGGGCCAAAGAAGGTGACTTTTGACAGGGTGCAGGT GCTGGACGCACACTATGACTCAGTCTTGCAGGACGTTAAGCGGGCCGCCTCTAAGGTTAGT GCGAGGCTCCTCACGGTAGAGGAAGCCTGCGCGCTGACCCCGCCCCACTCCGCCAAATCGC GATACGGATTTGGGGCAAAAGAGTGCGCAGCTTATCTAGGAGGGCCGTTAACCACATCCG GTCCGTGTGGGAGGACCTCCTGGAAGACCAACATACCCCAATTGACACAACTATCATGGCT AAAAATGAGGTGTTCTGCATTGATCCAACTAAAGGTGGGAAAAAGCCAGCTCGCCTCATCG TATACCCCGACCTTGGGGTCAGGGTGTGCGAAAAGATGGCCCTCTATGACATCGCACAAAA GCTTCCCAAAGCGATAATGGGGCCATCCTATGGGTTCCAATACTCTCCCGCAGAACGGGTC GATTTCCTCCTCAAAGCTTGGGGAAGTAAGAAGGACCCAATGGGGTTCTCGTATGACACCC GCTGCTTTGACTCAACCGTCACGGAGAGGGGACATAAGAACAGAAGAATCCATATATCAGGC TTGTTCTCTCCCTCAAGAAGCCAGAACTGTCATACACTCGCTCACTGAGAGACTTTACGTA GGAGGGCCCATGACAAACAGCAAAGGGCAATCCTGCGGCTACAGGCGTTGCCGCGCAAGCG GTGTTTTCACCACCAGCATGGGGAATACCATGACATGTTACATCAAAGCCCTTGCAGCGTG TAAGGCTGCAGGGATCGTGGACCCTGTTATGTTGGTGTGTGGAGACGACCTGGTCGTCATC TCAGAGAGCCAAGGTAACGAGGAGGACGAGCGAAACCTGAGAGCTTTCACGGAGGCTATGA CCAGGTATTCCGCCCCTCCCGGTGACCTTCCCAGACCGGAATATGACTTGGAGCTTATAAC ATCCTGCTCCTCAAACGTATCGGTAGCGCTGGACTCTCGGGGTCGCCGCCGGTACTTCCTA ACCAGAGACCCTACCACTCCAX3TCACCCGAGCTGCTTGGGAAACAGTAAGACACTCCCCTG TCAATTCTTGGCTGGGCAACATCATCCAGTACGCCCCCACAATCTGGGTCCGGATGGTCAT AATGACTCACTTCTCCCATACTATTGGCCCAGGACACTCTGAACCAAAATCTCAATTTT GAGATGTACGGGGCAGTATACTCGGTCAATCCATTAGACCTACCGGCCATAATTGAAAGGC TACATGGGCTTGAAGCCTTTTCACTGCACACATACTCTCCCCACGAACTCTCACGGGTGGC AGCAACTCTCAGAAAACTTGGAGCGCCTCCCCTTAGAGCGTGGAAGAGTCGGGCGCGTGCC GTGAGAGCTTCACTCATCGCCCAAGGAGCGAGGGCGGCCATTTGTGGCCGCTACCTCTTCA ACTGGGCGGTGAAAACAAAGCTCAAACTCACTCCATTGCCCGAGGCGAGCCGCCTGGATTT ATCCGGGTGGTTCACCGTGGGCGCCGGCGGGGGCGACATTTATCACAGCGTGTCGCATGCC TCCCCGATCGATGA

3/7

MAPITAYSQQTRGLLGCIITSLTGRDKNQVEGEVQVVSTATQSFLATCVNGVCWTVYHGAG SKTLAGPKGPITQMYTNVDQDLVGWQAPPGARSLTPCTCGSSDLYLVTRHADVIPVRRRGD SRGSLLSPRPVSYLKGSSGGPLLCPSGHAVGIFRAAVCTRGVAKAVDFVPVESMETTMRSP VFTDNSSPPAVPQTFQVAHLHAPTGSGKSTKVPAAYAAQGYKVLVLNPSVAATLGFGAYMS KAHGIDPNIRTGVRTITTGAPVTYSTYGKFLADGGCSGGAYDIIICDECHSTDSTTILGIG TVLDQAETAGARLVVLATATPPGSVTVPHPNIEEVALSNTGEIPFYGKAIPIEAIRGGRHL IFCHSKKKCDELAAKLSGLGINAVAYYRGLDVSVIPTIGDVVVVATDALMTGYTGDFDSVI DCNTCVTQTVDFSLDPTFTIETTTVPQDAVSRSQRRGRTGRGRMGIYRFVTPGERPSGMFD  ${ t SSVLCECYDAGCAWYELTPAETSVRLRAYLNTPGLPVCQDHLEFWESVFTGLTHIDAHFLS}$ QTKQAGDNFPYLVAYQATVCARAQAPPPSWDQMWKCLIRLKPTLHGPTPLLYRLGAVQNEV TLTHPITKYIMACMSADLEVVTSTWVLVGGVLAALAAYCLTTGSVVIVGRIILSGRPAIVP DREFLYQEFDEMEECASHLPYIEQGMQLAEQFKQKALGLLQTATKQAEAAAPVVESKWRAL ETFWAKHMWNFISGIQYLAGLSTLPGNPAIASLMAFTASITSPLTTQSTLLFNILGGWVAA QLAPPSAASAFVGAGIAGAAVGSIGLGKVLVDILAGYGAGVAGALVAFKVMSGEMPSTEDL  $ext{VNLLPAILSPGALVVGVVCAAILRRHVGPGEGAVQWMNRLIAFASRGNH} \mathbf{x}^{2} ext{SPTHYVPESDA}$ AARVTOILSSLTITQLLKRLHQWINEDCSTPCSGSWLRDVWDWICTVLTDFKTWLQSKLLP QLPGVPFFSCQRGYKGVWRGDGIMQTTCPCGAQITGHVKNGSMRIVGPKTCSNTWHGTFPI NAYTTGPCTPSPAPNYSRALWRVAAEEYVEVTRVGDFHYVTGMTTDNVKCPCQVPAPEFFT EVDGVRLHRYAPACRPLLREEVTFQVGLNQYLVGSQLPCEPEPDVAVLTSMLTDPSHITAE  ${\tt TAKRRLARGSPPSLASSSAIQLSAPSLKATCTTHHVSPDADLIEANLLWRQEMGG\textbf{\textit{X}}^{\textbf{1}} {\tt ITRVE}$ SENKVVVLDSFDPLRAEEDEREVSVPAEILRKSKKFPAAMPIWARPDYNPPLLESWKDPDY VPPVVHGCPLPPIKAPPIPPPRRKRTVVLTESSVSSALAELATKTFGSSESSAVDSGTATA LPDQASDDGDKGSDVESYSSMPPLEGEPGDPDLSDGSWSTVSEEASEDVVCC

## 4/7

ATGGCGCCCATCACGGCCTACTCCCAACAGACGCGGGGCCTACTTGGTTGCATCATCACTA GCCTTACAGGCCGGACAAGAACCAGGTCGAGGGAGAGGTTCAGGTGGTTTCCACCGCAAC ACAATCCTTCCTGGCGACCTGCGTCAACGGCGTGTGTTGGACCGTTTACCATGGTGCTGGC TCAAAGACCTTAGCCGGCCCAAAGGGGCCAATCACCCAGATGTACACTAATGTGGACCAGG ACCTCGTCGGCTGGCAGGCGCCCCCGGGGCGCGTTCCTTGACACCATGCACCTGTGGCAG AGTAGGGGGAGCCTGCTCCCCCCAGGCCTGTCTCCTACTTGAAGGGCTCTTCGGGTGGTC CACTGCTCTGCCCTTCGGGGCACGCTGTGGGCATCTTCCGGGCTGCCGTATGCACCCGGGG GGTTGCGAAGGCGGTGGACTTTGTGCCCGTAGAGTCCATGGAAACTACTATGCGGTCTCCG GTCTTCACGGACAACTCATCCCCCCGGCCGTACCGCAGACATTTCAAGTGGCCCACCTAC ACGCTCCCACTGGCAGCGGCAAGAGTACTAAAGTGCCGGCTGCATATGCAGCCCAAGGGTA CAAGGTGCTCGTCCAATCCGTCCGTTGCCGCTACCTTAGGGGTTTGGGGCGTATATGTCT AAGGCACACGGTATTGACCCCAACATCAGAACTGGGGTAAGGACCATTACCACAGGCGCCC CCGTCACATACTCTACCTATGGCAAGTTTCTTGCCGATGGTGGTTGCTCTGGGGGGCGCTTA TGACATCATAATATGTGATGAGTGCCATTCAACTGACTCGACTACAATCTTGGGCATCGGC ACAGTCCTGGACCAAGCGGAGACGGCTGGAGCGCGCTTGTCGTCGCCACCGCTACGC CTCCGGGATCGGTCACCGTGCCACACCCAAACATCGAGGAGGTGGCCCTGTCTAATACTGG AGAGATCCCCTTCTATGGCAAAGCCATCCCCATTGAAGCCATCAGGGGGGGAAGGCATCTC ATTTTCTGTCATTCCAAGAAGAAGTGCGACGAGCTCGCCGCAAAGCTGTCAGGCCTCGGAA TCAACGCTGTGGCGTATTACCGGGGGCTCGATGTCTCCGTCATACCAACTATCGGAGACGT CGTTGTCGTGGCAACAGACGCTCTGATGACGGGCTATACGGGCCGACTTTGACTCAGTGATC GACTGTAACACATGTGTCACCCAGACAGTCGACTTCAGCTTGGATCCCACCTTCACCATTG AGACGACGACCGTGCCTCAAGACGCAGTGTCGCGCTCGCAGCGGCGGGGTAGGACTGGCAG AGGTAGGATGGGCATCTACAGGTTTGTGACTCCGGGAGAACGGCCCTCGGGCATGTTCGAT TCCTCGGTCCTGTGTGAGTGCTATGACGCGGGCTGTGCTTGGTACGAGCTCACCCCCGCCG AGACCTCGGTTAGGTTGCGGGCCTACCTGAACACACCAGGGTTGCCCGTTTGCCAGGACCA CCTGGAGTTCTGGGAGAGTGTCTTCACAGGCCTCACCCACATAGATGCACACTTCTTGTCC CAGACCAAGCAGGCAGGAGACAACTTCCCCTACCTGGTAGCATACCAAGCCACGGTGTGCG CCAGGGCTCAGGCCCCACCTCCATCATGGGATCAAATGTGGAAGTGTCTCATACGGCTGAA ACCTACGCTGCACGGCCAACACCCTTGCTGTACAGGCTGGGAGCCGTCCAAAATGAGGTC ACCCTCACCCACTAACCAAATACATCATGGCATGCATGTCGGCTGACCTGGAGGTCG TCACTAGCACCTGGGTGCTGGTGGGCGGAGTCCTTGCAGCTCTGGCCGCGTATTGCCTGAC AACAGGCAGTGTGGTCATTGTGGGGTAGGATTATCTTGTCCGGGAGGCCGGCTATTGTTCCC GACAGGGAGTTTCTCTACCAGGAGTTCGATGAAATGGAAGAGTGCGCCTCGCACCTCCCTT ACATCGAGCAGGGAATGCAGCTCGCCGAGCAATTCAAGCAGAAAGCGCTCGGGTTACTGCA AACAGCCACCAAACAAGCGGAGGCTGCTGCTCCCGTGGTGGAGTCCAAGTGGCGAGCCCTT GAGACATTCTGGGCGAAGCACATGTGGAATTTCATCAGCGGGATACAGTACTTAGCAGGCT TATCCACTCTGCCTGGGAACCCCGCAATAGCATCATTGATGGCATTCACAGCCTCTATCAC CAACTCGCCCCCCAGCGCCGCTTCGGCTTCGTGGGCGCCGGCATCGCCGGTGCGGCTG TTGGCAGCATAGGCCTTGGGAAGGTGCTTGTGGACATTCTGGCGGGTTATGGAGCAGGAGT GGCCGCCGCGCTCGTGGCCTTCAAGGTCATGAGCGCGAGATGCCCTCCACCGAGGACCTG GTCAATCTACTTCCTGCCATCCTCTCTCTGGCGCCCTGGTCGTCGGGGTCGTGTGTGCAG CAATACTGCGTCGACACGTGGGTCCGGGAGAGGGGGCTGTGCAGTGGATGAACCGGCTGAT AGCGTTCGCCTCGCGGGGTAATCATGX2TTCCCCCACGCACTATGTGCCTGAGAGCGACGCC GCAGCGCGTGTTACTCAGATCCTCTCCAGCCTTACCATCACTCAGCTGCTGAAAAGGCTCC ACCAGTGGATTAATGAAGACTGCTCCACACCGTGTTCCGGCTCGTGGCTAAGGGATGTTTG GGACTGGATATGCACGGTGTTGACTGACTTCAAGACCTGGCTCCAGTCCAAGCTCCTGCCG

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CAGCTACCGGGAGTCCCTTTTTTCTCGTGCCAACGCGGGTACAAGGGAGTCTGGCGGGGAG ACGGCATCATGCAAACCACCTGCCCATGTGGAGCACAGATCACCGGACATGTCAAAAACGG TTCCATGAGGATCGTCGGGCCTAAGACCTGCAGCAACACGTGGCATGGAACATTCCCCATC AACGCATACACCACGGGCCCCTGCACACCCTCTCCAGCGCCCAAACTATTCTAGGGCGCTGT GGCGGGTGGCCGCTGAGGAGTACGTGGAGGTCACGCGGGTGGGGGATTTCCACTACGTGAC GGGCATGACCACTGACAACGTAAAGTGCCCATGCCAGGTTCCGGCTCCTGAATTCTTCACG GAGGTGGACGGAGTGCGGTTGCACAGGTACGCTCCGGCGTGCAGGCCTCTCCTACGGGAGG AGGTTACATTCCAGGTCGGGCTCAACCAATACCTGGTTGGGTCACAGCTACCATGCGAGCC CGAACCGGATGTAGCAGTGCTCACTTCCATGCTCACCGACCCCTCCCACATCACAGCAGAA ACGGCTAAGCGTAGGTTGGCCAGGGGGTCTCCCCCCTCCTTGGCCAGCTCTTCAGCTATCC AGTTGTCTGCGCCTTCCTTGAAGGCGACATGCACTACCCACCATGTCTCTCCGGACGCTGA CCTCATCGAGGCCAACCTCCTGTGGCGGCAGGAGATGGGCGGGAX1CATCACCCGCGTGGAG TCGGAGAACAAGGTGGTAGTCCTGGACTCTTTCGACCCGCTTCGAGCGGAGGAGGATGAGA GGGAAGTATCCGTTCCGGCGGAGATCCTGCGGAAATCCAAGAAGTTCCCCGCAGCGATGCC CATCTGGGCGCCCGGATTACAACCCTCCACTGTTAGAGTCCTGGAAGGACCCGGACTAC GTCCCTCCGGTGGTGCACGGGTGCCCGTTGCCACCTATCAAGGCCCCTCCAATACCACCTC CACGGAGAAAGAGGACGGTTGTCCTAACAGAGTCCTCCGTGTCTTCTGCCTTAGCGGAGCT CGCTACTAAGACCTTCGGCAGCTCCGAATCATCGGCCGTCGACAGCGGCACCGCCC CTTCCTGACCAGGCCTCCGACGACGGTGACAAAGGATCCGACGTTGAGTCGTACTCCTCCA TGCCCCCCTTGAGGGGAACCGGGGACCCCGATCTCAGTGACGGGTCTTGGTCTACCGT GAGCGAGGAAGCTAGTGAGGATGTCGTCTGCTGC

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GCCTCCAAAGCCGCCCTCATTGAGGAAGGGCAGCGGATGGCGGAGATGCTCAAATCTAAGATACAAGGCCTCCT
ACAACAGGCCACAAGGCAAGCTCAAGACATACAGCCAGCTATACAGTCATCATGGCCCAAGCTTGAACAATTTT
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GCAGTAGCATCAATGATGGCTTTTAGCGCCGCGCTGACTAGCCCACCACCACCACCACCACCATCCTCTTGAA
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TGCTATTCTGTCTCCTGGTGCGTTGGTAGTGGGAGTCATCTGTGCAGCAATCCTGCGTCGACACGTGGGTCCGG
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TATGTGCCTGAGAGCCGCCGCAGCGCGTGTTACTCAGATCCTCCCAGCCTTACCATCACTCAGCTGCTGAA
AAGGCTCCACCAGTGGATTAATGAAGACTGCTCCACCCGTGT

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ASKAALIEEGQRMAEMLKSKIQGLLQQATRQAQDIQPAIQSSWPKLEQFWAKHMWNFISGIQYLAGLSTLPGNP AVASMMAFSAALTSPLPTSTTILLNIMGGWLASQIAPPAGATGFVVSGLVGAAVGSIGLGKILVDVLAGYGAGI SGALVAFKIMSGEKPTVEDVVNLLPAILSPGALVVGVICAAILRRHVGPGEGAVQWMNRLIAFASRGNHASPTH YVPESDAAARVTQILSSLTITQLLKRLHQWINEDCSTPC